Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:ssspta1712mxf

PASSWORD:
TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * * * * * * Welcome to STN International * * * * * * * * * *

NEWS 1		Web Page URLs for STN Seminar Schedule - N. America
NEWS 2		"Ask CAS" for self-help around the clock
NEWS 3	DEC 21	IPC search and display fields enhanced in CA/CAplus with the IPC reform
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* * * * * * * * * * * * * STN Columbus * * * * * * * * * * * * * * * *

FILE 'HOME' ENTERED AT 16:49:48 ON 27 MAR 2006

=> file registry
COST IN U.S. DOLLARS

	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'REGISTRY' ENTERED AT 16:50:06 ON 27 MAR 2006

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 26 MAR 2006 HIGHEST RN 878044-67-8
DICTIONARY FILE UPDATES: 26 MAR 2006 HIGHEST RN 878044-67-8

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH January 6, 2006

Please note that search-term pricing does apply when conducting SmartSELECT searches.

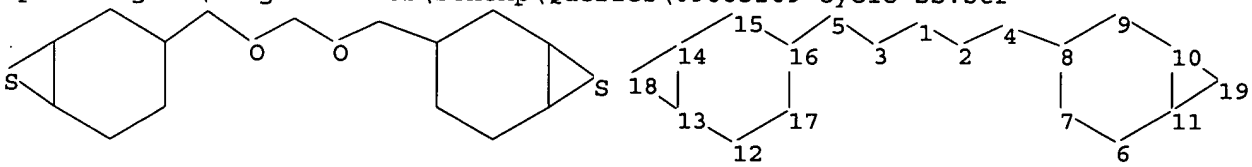
****
* *
* The CA roles and document type information have been removed from *
* the IDE default display format and the ED field has been added, *
* effective March 20, 2005. A new display format, IDERL, is now *
* available and contains the CA role and document type information. *
* *
****

Structure search iteration limits have been increased. See HELP SLIMITS for details.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

http://www.cas.org/ONLINE/UG/regprops.html

=>
Uploading C:\Program Files\Stnexp\Queries\09885269 cyclo SS.str



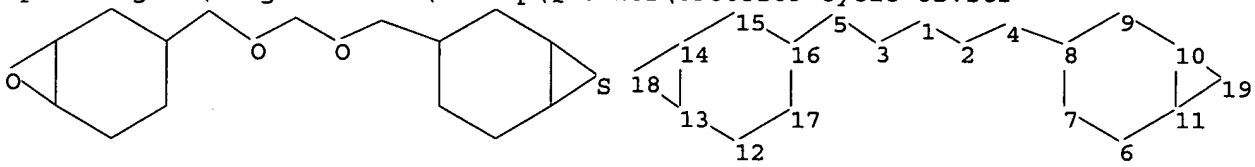
chain nodes :
1 2 3 4 5
ring nodes :
6 7 8 9 10 11 12 13 14 15 16 17 18 19
chain bonds :
1-3 1-2 2-4 3-5 4-8 5-16
ring bonds :
6-7 6-11 7-8 8-9 9-10 10-11 10-19 11-19 12-13 12-17 13-14 13-18 14-15 14-18 15-16 16-17
exact/norm bonds :

1-3 1-2 2-4 3-5 6-7 6-11 7-8 8-9 9-10 10-11 10-19 11-19 12-13 12-17
13-14 13-18 14-15 14-18 15-16 16-17
exact bonds :
4-8 5-16

Match level :
1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:Atom 7:Atom 8:Atom 9:Atom
10:Atom 11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:Atom
19:Atom

L1 STRUCTURE UPLOADED

=>
Uploading C:\Program Files\Stnexp\Queries\09885269 cyclo OS.str



chain nodes :
1 2 3 4 5
ring nodes :
6 7 8 9 10 11 12 13 14 15 16 17 18 19
chain bonds :
1-3 1-2 2-4 3-5 4-8 5-16
ring bonds :
6-7 6-11 7-8 8-9 9-10 10-11 10-19 11-19 12-13 12-17 13-14 13-18 14-15
14-18 15-16 16-17
exact/norm bonds :
1-3 1-2 2-4 3-5 6-7 6-11 7-8 8-9 9-10 10-11 10-19 11-19 12-13 12-17
13-14 13-18 14-15 14-18 15-16 16-17
exact bonds :
4-8 5-16

Match level :
1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:Atom 7:Atom 8:Atom 9:Atom
10:Atom 11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:Atom
19:Atom

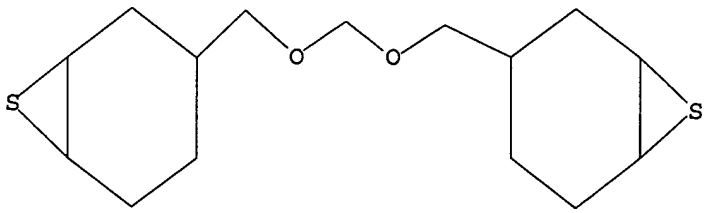
L2 STRUCTURE UPLOADED

=> s sam l1
SAMPLE SEARCH INITIATED 16:50:33 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 2 TO ITERATE

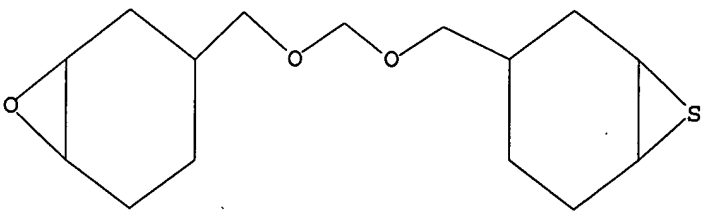
100.0% PROCESSED 2 ITERATIONS 0 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 2 TO 124
PROJECTED ANSWERS: 0 TO 0

```
L3            0 SEA SSS SAM L1

=> s sam l2
SAMPLE SEARCH INITIATED 16:50:36 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -        0 TO ITERATE

100.0% PROCESSED        0 ITERATIONS                                0 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS:            0 TO        0
PROJECTED ANSWERS:               0 TO        0

L4            0 SEA SSS SAM L2

=> s full l1
FULL SEARCH INITIATED 16:50:39 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -       39 TO ITERATE

100.0% PROCESSED       39 ITERATIONS                                0 ANSWERS
SEARCH TIME: 00.00.01

L5            0 SEA SSS FUL L1

=> s full l2
FULL SEARCH INITIATED 16:50:43 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -        1 TO ITERATE

100.0% PROCESSED        1 ITERATIONS                                0 ANSWERS
SEARCH TIME: 00.00.01

L6            0 SEA SSS FUL L2

=> d l1
L1 HAS NO ANSWERS
L1              STR
```




```
Structure attributes must be viewed using STN Express query preparation.

=> d l2
L2 HAS NO ANSWERS
L2              STR
```



Structure attributes must be viewed using STN Express query preparation.

=>

---Logging off of STN---

=>
Executing the logoff script...

=> LOG Y

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	334.32	334.53

STN INTERNATIONAL LOGOFF AT 16:51:44 ON 27 MAR 2006

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:ssspta1712mxf

PASSWORD:
TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * * * * * * Welcome to STN International * * * * * * * * * *

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* * * * * * * * * * * * * * STN Columbus * * * * * * * * * * * * * * * *

FILE 'HOME' ENTERED AT 16:57:04 ON 27 MAR 2006

=> file registry

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'REGISTRY' ENTERED AT 16:57:29 ON 27 MAR 2006
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 26 MAR 2006 HIGHEST RN 878044-67-8
DICTIONARY FILE UPDATES: 26 MAR 2006 HIGHEST RN 878044-67-8

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH January 6, 2006

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*
****

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=> file registry
COST IN U.S. DOLLARS

	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.44	0.65

FILE 'REGISTRY' ENTERED AT 16:57:46 ON 27 MAR 2006
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

Property values tagged with IC are from the ZIC/VINITI data file
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predicted properties as well as tags indicating availability of
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on property searching in REGISTRY, refer to:

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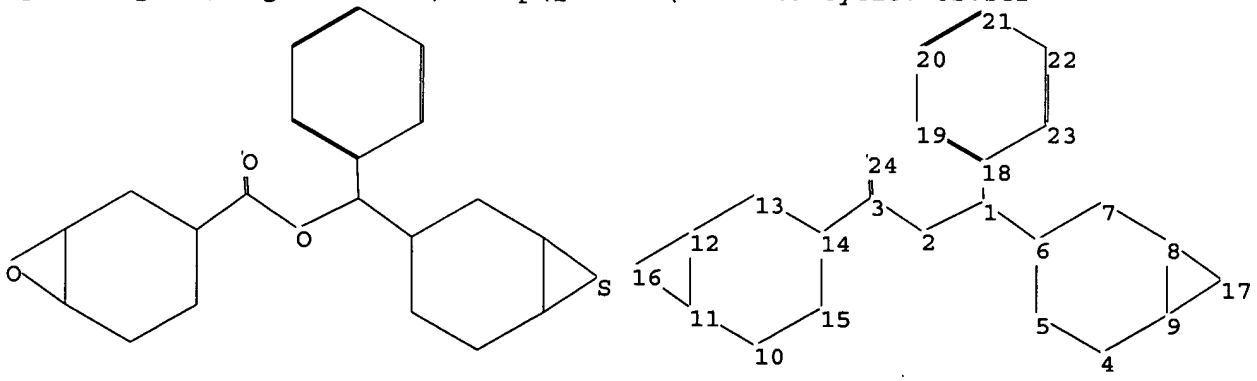
=>
Uploading C:\Program Files\Stnexp\Queries\09885269 cyclo7 OS.str



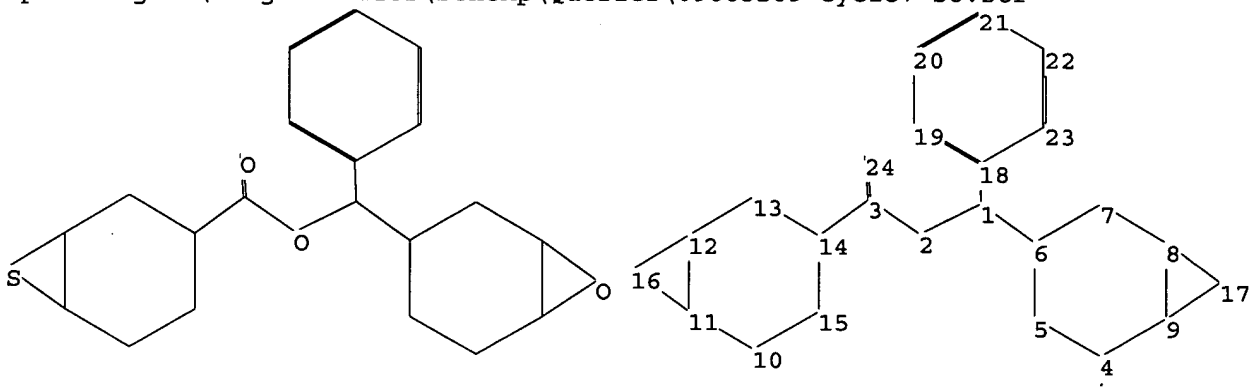
chain nodes :
1 2 3 24
ring nodes :

4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23
chain bonds :
1-2 1-18 1-6 2-3 3-14 3-24
ring bonds :
4-5 4-9 5-6 6-7 7-8 8-9 8-17 9-17 10-11 10-15 11-12 11-16 12-13 12-16
13-14 14-15 18-19 18-23 19-20 20-21 21-22 22-23
exact/norm bonds :
1-2 2-3 3-24 4-5 4-9 5-6 6-7 7-8 8-9 8-17 9-17 10-11 10-15 11-12
11-16 12-13 12-16 13-14 14-15
exact bonds :
1-18 1-6 3-14
normalized bonds :
18-19 18-23 19-20 20-21 21-22 22-23

Match level :
1:CLASS 2:CLASS 3:CLASS 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom
11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:Atom 19:Atom
20:Atom 21:Atom 22:Atom 23:Atom 24:CLASS

L1 STRUCTURE UPLOADED

=>
Uploading C:\Program Files\Stnexp\Queries\09885269 cyclo7 SO.str

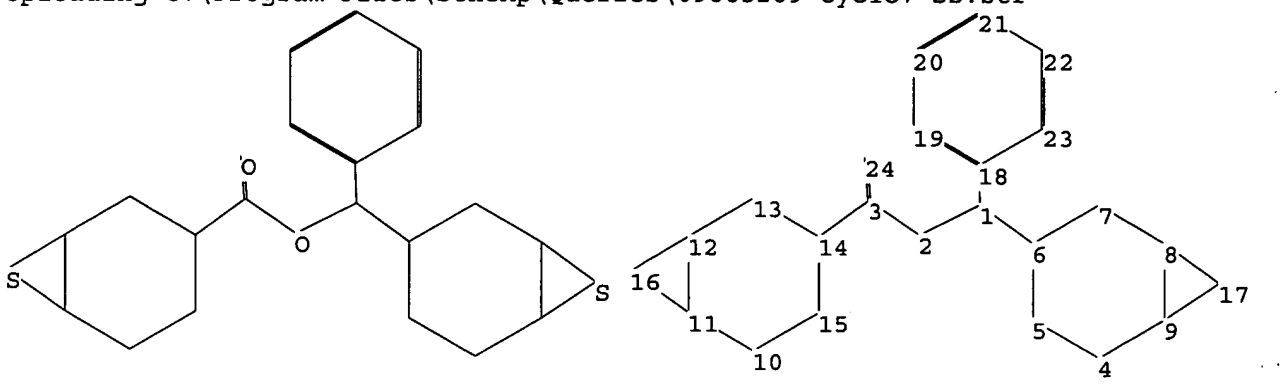


chain nodes :
1 2 3 24
ring nodes :
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23
chain bonds :
1-2 1-18 1-6 2-3 3-14 3-24
ring bonds :
4-5 4-9 5-6 6-7 7-8 8-9 8-17 9-17 10-11 10-15 11-12 11-16 12-13 12-16
13-14 14-15 18-19 18-23 19-20 20-21 21-22 22-23
exact/norm bonds :
1-2 2-3 3-24 4-5 4-9 5-6 6-7 7-8 8-9 8-17 9-17 10-11 10-15 11-12
11-16 12-13 12-16 13-14 14-15
exact bonds :
1-18 1-6 3-14
normalized bonds :
18-19 18-23 19-20 20-21 21-22 22-23

Match level :
1:CLASS 2:CLASS 3:CLASS 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom
11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:Atom 19:Atom
20:Atom 21:Atom 22:Atom 23:Atom 24:CLASS

L2 STRUCTURE UPLOADED

=>
Uploading C:\Program Files\Stnexp\Queries\09885269 cyclo7 SS.str



chain nodes :
1 2 3 24
ring nodes :
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23
chain bonds :
1-2 1-18 1-6 2-3 3-14 3-24
ring bonds :
4-5 4-9 5-6 6-7 7-8 8-9 8-17 9-17 10-11 10-15 11-12 11-16 12-13 12-16
13-14 14-15 18-19 18-23 19-20 20-21 21-22 22-23
exact/norm bonds :
1-2 2-3 3-24 4-5 4-9 5-6 6-7 7-8 8-9 8-17 9-17 10-11 10-15 11-12
11-16 12-13 12-16 13-14 14-15
exact bonds :
1-18 1-6 3-14
normalized bonds :
18-19 18-23 19-20 20-21 21-22 22-23

Match level :
1:CLASS 2:CLASS 3:CLASS 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom
11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:Atom 19:Atom
20:Atom 21:Atom 22:Atom 23:Atom 24:CLASS

L3 STRUCTURE UPLOADED

=> s sam l1
SAMPLE SEARCH INITIATED 16:58:32 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 0 TO ITERATE

100.0% PROCESSED 0 ITERATIONS 0 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 0 TO 0
PROJECTED ANSWERS: 0 TO 0

```
L4             0 SEA SSS SAM L1

=> s sam l2
SAMPLE SEARCH INITIATED 16:58:36 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -        0 TO ITERATE

100.0% PROCESSED         0 ITERATIONS                                0 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS:            0 TO         0
PROJECTED ANSWERS:               0 TO         0

L5             0 SEA SSS SAM L2

=> s sam l3
SAMPLE SEARCH INITIATED 16:58:39 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -        1 TO ITERATE

100.0% PROCESSED         1 ITERATIONS                                0 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS:            1 TO        80
PROJECTED ANSWERS:               0 TO         0

L6             0 SEA SSS SAM L3

=> s full l1
FULL SEARCH INITIATED 16:58:42 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -        1 TO ITERATE

100.0% PROCESSED         1 ITERATIONS                                0 ANSWERS
SEARCH TIME: 00.00.01

L7             0 SEA SSS FUL L1

=> s full l2
FULL SEARCH INITIATED 16:58:45 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -        1 TO ITERATE

100.0% PROCESSED         1 ITERATIONS                                0 ANSWERS
SEARCH TIME: 00.00.01

L8             0 SEA SSS FUL L2

=> s full l3
FULL SEARCH INITIATED 16:58:48 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -       36 TO ITERATE

100.0% PROCESSED        36 ITERATIONS                                0 ANSWERS
SEARCH TIME: 00.00.01

L9             0 SEA SSS FUL L3

=>

---Logging off of STN---


=>
Executing the logoff script...
```

=> LOG Y

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	500.38	501.03

STN INTERNATIONAL LOGOFF AT 16:58:54 ON 27 MAR 2006

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:ssspta1712mxf

PASSWORD:
TERMINAL (ENTER 1, 2, 3, OR ?):2

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* * * * * * * * * * * * * * STN Columbus * * * * * * * * * * * * * * *

FILE 'HOME' ENTERED AT 17:03:17 ON 27 MAR 2006

=> file registry

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'REGISTRY' ENTERED AT 17:03:31 ON 27 MAR 2006
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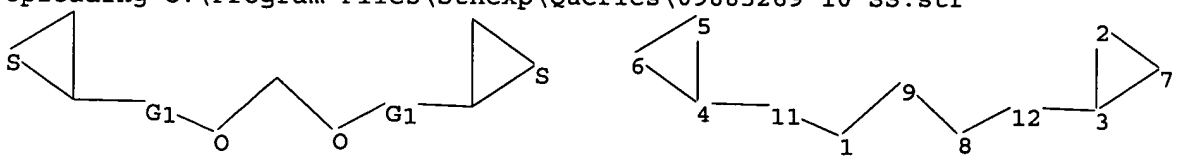
* available and contains the CA role and document type information. *
* *
****

Structure search iteration limits have been increased. See HELP SLIMITS for details.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

http://www.cas.org/ONLINE/UG/regprops.html

=>
Uploading C:\Program Files\Stnexp\Queries\09885269 10 SS.str



chain nodes :

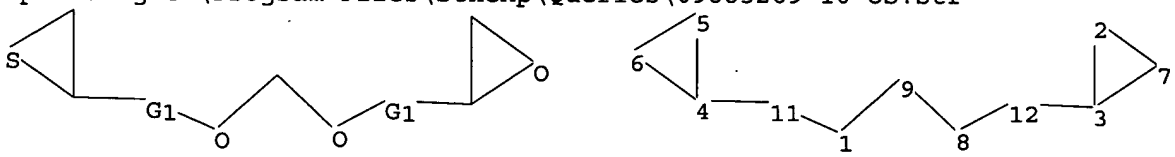
1 8 9 11 12
ring nodes :
2 3 4 5 6 7
chain bonds :
1-11 1-9 3-12 4-11 8-9 8-12
ring bonds :
2-7 2-3 3-7 4-6 4-5 5-6
exact/norm bonds :
1-11 1-9 2-7 2-3 3-7 3-12 4-6 4-5 4-11 5-6 8-9 8-12

G1:Cb,Ak

Match level :
1:CLASS 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:CLASS 9:CLASS 11:CLASS
12:CLASS

L1 STRUCTURE UPLOADED

=>
Uploading C:\Program Files\Stnexp\Queries\09885269 10 OS.str



chain nodes :
1 8 9 11 12
ring nodes :
2 3 4 5 6 7
chain bonds :
1-11 1-9 3-12 4-11 8-9 8-12
ring bonds :
2-7 2-3 3-7 4-6 4-5 5-6
exact/norm bonds :
1-11 1-9 2-7 2-3 3-7 3-12 4-6 4-5 4-11 5-6 8-9 8-12

G1:Cb,Ak

Match level :
1:CLASS 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:CLASS 9:CLASS 11:CLASS
12:CLASS

L2 STRUCTURE UPLOADED

=> s sam l1
SAMPLE SEARCH INITIATED 17:03:56 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 5789 TO ITERATE

34.5% PROCESSED 2000 ITERATIONS 0 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 111218 TO 120342

```
PROJECTED ANSWERS:                0 TO        0

L3             0 SEA SSS SAM L1

=> s sam l2
SAMPLE SEARCH INITIATED 17:04:00 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -     4211 TO ITERATE

 47.5% PROCESSED     2000 ITERATIONS                                  0 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS:        80329 TO    88111
PROJECTED ANSWERS:               0 TO        0

L4             0 SEA SSS SAM L2

=> s full l1
FULL SEARCH INITIATED 17:04:04 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -   115678 TO ITERATE

100.0% PROCESSED   115678 ITERATIONS                               0 ANSWERS
SEARCH TIME: 00.00.03

L5             0 SEA SSS FUL L1

=> s full l2
FULL SEARCH INITIATED 17:04:10 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -    81845 TO ITERATE

100.0% PROCESSED    81845 ITERATIONS                                0 ANSWERS
SEARCH TIME: 00.00.01

L6             0 SEA SSS FUL L2

=>

---Logging off of STN---


=>
Executing the logoff script...


=> LOG Y

COST IN U.S. DOLLARS                            SINCE FILE      TOTAL
                                                   ENTRY    SESSION
FULL ESTIMATED COST                               333.88     334.09

STN INTERNATIONAL LOGOFF AT 17:04:25 ON 27 MAR 2006


Connecting via Winsock to STN



Welcome to STN International!  Enter x:x

LOGINID:ssspta1712mxf
```

PASSWORD:
TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * * * * * * Welcome to STN International * * * * * * * * * *

NEWS	1		Web Page URLs for STN Seminar Schedule - N. America
NEWS	2		"Ask CAS" for self-help around the clock
NEWS	3	DEC 21	IPC search and display fields enhanced in CA/CAplus with the IPC reform
NEWS	4	DEC 23	New IPC8 SEARCH, DISPLAY, and SELECT fields in USPATFULL/ USPAT2
NEWS	5	JAN 13	IPC 8 searching in IFIPAT, IFIUDB, and IFICDB
NEWS	6	JAN 13	New IPC 8 SEARCH, DISPLAY, and SELECT enhancements added to INPADOC
NEWS	7	JAN 17	Pre-1988 INPI data added to MARPAT
NEWS	8	JAN 17	IPC 8 in the WPI family of databases including WPIFV
NEWS	9	JAN 30	Saved answer limit increased
NEWS	10	JAN 31	Monthly current-awareness alert (SDI) frequency added to TULSA
NEWS	11	FEB 21	STN AnaVist, Version 1.1, lets you share your STN AnaVist visualization results
NEWS	12	FEB 22	Status of current WO (PCT) information on STN
NEWS	13	FEB 22	The IPC thesaurus added to additional patent databases on STN
NEWS	14	FEB 22	Updates in EPFULL; IPC 8 enhancements added
NEWS	15	FEB 27	New STN AnaVist pricing effective March 1, 2006
NEWS	16	FEB 28	MEDLINE/LMEDLINE reload improves functionality
NEWS	17	FEB 28	TOXCENTER reloaded with enhancements
NEWS	18	FEB 28	REGISTRY/ZREGISTRY enhanced with more experimental spectral property data
NEWS	19	MAR 01	INSPEC reloaded and enhanced
NEWS	20	MAR 03	Updates in PATDPA; addition of IPC 8 data without attributes
NEWS	21	MAR 08	X.25 communication option no longer available after June 2006
NEWS	22	MAR 22	EMBASE is now updated on a daily basis

NEWS EXPRESS FEBRUARY 15 CURRENT VERSION FOR WINDOWS IS V8.01a, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 19 DECEMBER 2005. V8.0 AND V8.01 USERS CAN OBTAIN THE UPGRADE TO V8.01a AT http://download.cas.org/express/v8.0-Discover/

NEWS HOURS STN Operating Hours Plus Help Desk Availability
NEWS LOGIN Welcome Banner and News Items

Enter NEWS followed by the item number or name to see news on that specific topic.

* * * * * * * * * * * * * STN Columbus * * * * * * * * * * * * * * * *

FILE 'HOME' ENTERED AT 17:18:20 ON 27 MAR 2006

=> file registry

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'REGISTRY' ENTERED AT 17:18:36 ON 27 MAR 2006
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 26 MAR 2006 HIGHEST RN 878044-67-8
DICTIONARY FILE UPDATES: 26 MAR 2006 HIGHEST RN 878044-67-8

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH January 6, 2006

Please note that search-term pricing does apply when conducting SmartSELECT searches.

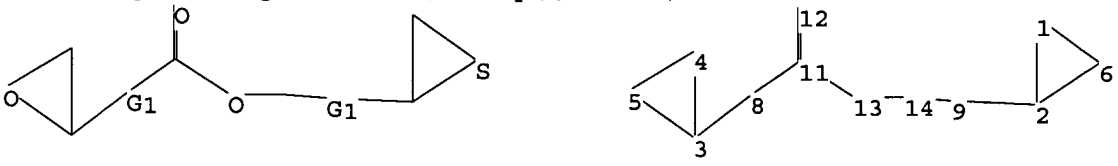
****
* *
* The CA roles and document type information have been removed from *
* the IDE default display format and the ED field has been added, *
* effective March 20, 2005. A new display format, IDERL, is now *
* available and contains the CA role and document type information. *
* *
****

Structure search iteration limits have been increased. See HELP SLIMITS for details.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

http://www.cas.org/ONLINE/UG/regprops.html

=>
Uploading C:\Program Files\Stnexp\Queries\09885269 10 OSa.str



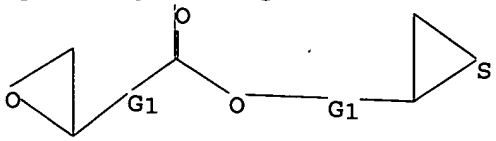
chain nodes :
8 9 11 12 13 14
ring nodes :
1 2 3 4 5 6
chain bonds :
2-9 3-8 8-11 9-14 11-12 11-13 13-14
ring bonds :
1-6 1-2 2-6 3-5 3-4 4-5
exact/norm bonds :
1-6 1-2 2-6 2-9 3-5 3-4 3-8 4-5 8-11 9-14 11-12 11-13 13-14

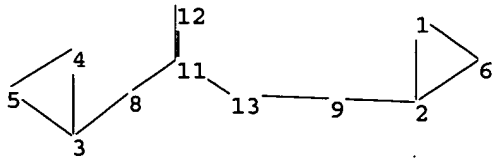
G1:Cb,Ak

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 8:CLASS 9:CLASS 11:CLASS 12:CLASS 13:CLASS 14:CLASS

L1 STRUCTURE UPLOADED

=>
Uploading C:\Program Files\Stnexp\Queries\09885269 10 OSb.str





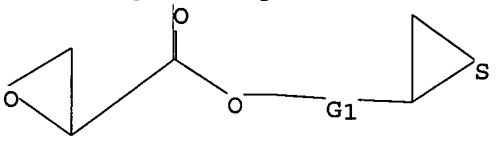
chain nodes :
8 9 11 12 13
ring nodes :
1 2 3 4 5 6
chain bonds :
2-9 3-8 8-11 9-13 11-12 11-13
ring bonds :
1-6 1-2 2-6 3-5 3-4 4-5
exact/norm bonds :
1-6 1-2 2-6 2-9 3-5 3-4 3-8 4-5 8-11 9-13 11-12 11-13

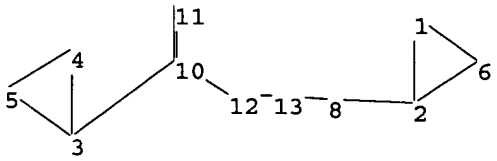
G1:Cb,Ak

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 8:CLASS 9:CLASS 11:CLASS
12:CLASS 13:CLASS

L2 STRUCTURE UPLOADED

=>
Uploading C:\Program Files\Stnexp\Queries\09885269 10 OSc.str





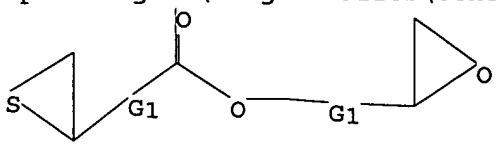
chain nodes :
8 10 11 12 13
ring nodes :
1 2 3 4 5 6
chain bonds :
2-8 3-10 8-13 10-11 10-12 12-13
ring bonds :
1-6 1-2 2-6 3-5 3-4 4-5
exact/norm bonds :
1-6 1-2 2-6 2-8 3-5 3-4 4-5 8-13 10-11 10-12 12-13
exact bonds :
3-10

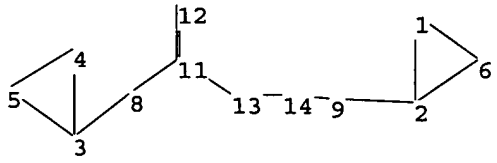
G1:Cb,Ak

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 8:CLASS 10:CLASS 11:CLASS
12:CLASS 13:CLASS

L3 STRUCTURE UPLOADED

=>
Uploading C:\Program Files\Stnexp\Queries\09885269 10 SOa.str





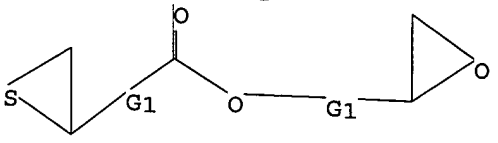
chain nodes :
8 9 11 12 13 14
ring nodes :
1 2 3 4 5 6
chain bonds :
2-9 3-8 8-11 9-14 11-12 11-13 13-14
ring bonds :
1-6 1-2 2-6 3-5 3-4 4-5
exact/norm bonds :
1-6 1-2 2-6 2-9 3-5 3-4 3-8 4-5 8-11 9-14 11-12 11-13 13-14

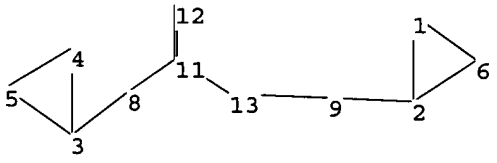
G1:Cb,Ak

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 8:CLASS 9:CLASS 11:CLASS
12:CLASS 13:CLASS 14:CLASS

L4 STRUCTURE UPLOADED

=>
Uploading C:\Program Files\Stnexp\Queries\09885269 10 SOb.str





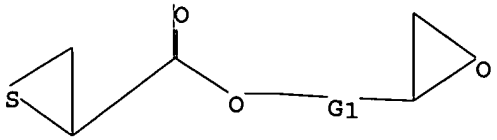
chain nodes :
8 9 11 12 13
ring nodes :
1 2 3 4 5 6
chain bonds :
2-9 3-8 8-11 9-13 11-12 11-13
ring bonds :
1-6 1-2 2-6 3-5 3-4 4-5
exact/norm bonds :
1-6 1-2 2-6 2-9 3-5 3-4 3-8 4-5 8-11 9-13 11-12 11-13

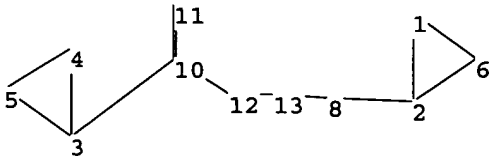
G1:Cb,Ak

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 8:CLASS 9:CLASS 11:CLASS
12:CLASS 13:CLASS

L5 STRUCTURE UPLOADED

=>
Uploading C:\Program Files\Stnexp\Queries\09885269 10 SOc.str





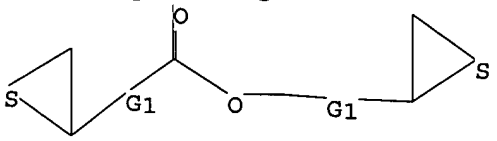
chain nodes :
8 10 11 12 13
ring nodes :
1 2 3 4 5 6
chain bonds :
2-8 3-10 8-13 10-11 10-12 12-13
ring bonds :
1-6 1-2 2-6 3-5 3-4 4-5
exact/norm bonds :
1-6 1-2 2-6 2-8 3-5 3-4 4-5 8-13 10-11 10-12 12-13
exact bonds :
3-10

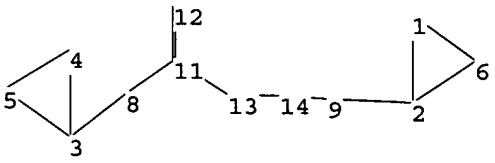
G1:Cb,Ak

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 8:CLASS 10:CLASS 11:CLASS
12:CLASS 13:CLASS

L6 STRUCTURE UPLOADED

=>
Uploading C:\Program Files\Stnexp\Queries\09885269 10 SSa.str





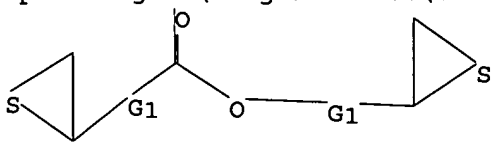
chain nodes :
8 9 11 12 13 14
ring nodes :
1 2 3 4 5 6
chain bonds :
2-9 3-8 8-11 9-14 11-12 11-13 13-14
ring bonds :
1-6 1-2 2-6 3-5 3-4 4-5
exact/norm bonds :
1-6 1-2 2-6 2-9 3-5 3-4 3-8 4-5 8-11 9-14 11-12 11-13 13-14

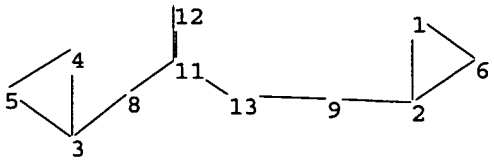
G1:Cb,Ak

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 8:CLASS 9:CLASS 11:CLASS
12:CLASS 13:CLASS 14:CLASS

L7 STRUCTURE UPLOADED

=>
Uploading C:\Program Files\Stnexp\Queries\09885269 10 SSb.str





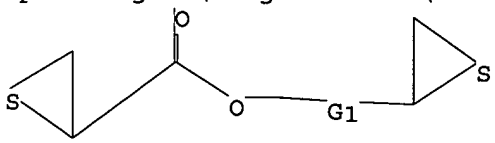
chain nodes :
8 9 11 12 13
ring nodes :
1 2 3 4 5 6
chain bonds :
2-9 3-8 8-11 9-13 11-12 11-13
ring bonds :
1-6 1-2 2-6 3-5 3-4 4-5
exact/norm bonds :
1-6 1-2 2-6 2-9 3-5 3-4 3-8 4-5 8-11 9-13 11-12 11-13

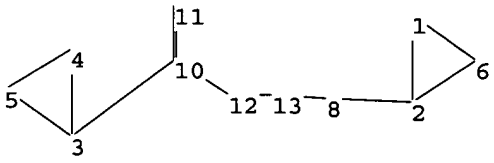
G1:Cb,Ak

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 8:CLASS 9:CLASS 11:CLASS
12:CLASS 13:CLASS

L8 STRUCTURE UPLOADED

=>
Uploading C:\Program Files\Stnexp\Queries\09885269 10 SSc.str





chain nodes :
8 10 11 12 13
ring nodes :
1 2 3 4 5 6
chain bonds :
2-8 3-10 8-13 10-11 10-12 12-13
ring bonds :
1-6 1-2 2-6 3-5 3-4 4-5
exact/norm bonds :
1-6 1-2 2-6 2-8 3-5 3-4 4-5 8-13 10-11 10-12 12-13
exact bonds :
3-10

G1:Cb,Ak

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 8:CLASS 10:CLASS 11:CLASS
12:CLASS 13:CLASS

```
L9      STRUCTURE UPLOADED

=> s full l1
FULL SEARCH INITIATED 17:20:43 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -    69795 TO ITERATE

100.0% PROCESSED    69795 ITERATIONS                          0 ANSWERS
SEARCH TIME: 00.00.01

L10           0 SEA SSS FUL L1

=> s full l2
FULL SEARCH INITIATED 17:20:47 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -    81845 TO ITERATE

100.0% PROCESSED    81845 ITERATIONS                          0 ANSWERS
SEARCH TIME: 00.00.01

L11           0 SEA SSS FUL L2

=> s full l3
FULL SEARCH INITIATED 17:20:51 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -    11294 TO ITERATE

100.0% PROCESSED    11294 ITERATIONS                          0 ANSWERS
SEARCH TIME: 00.00.01

L12           0 SEA SSS FUL L3

=> s full l4
FULL SEARCH INITIATED 17:20:54 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -    69795 TO ITERATE

100.0% PROCESSED    69795 ITERATIONS                          0 ANSWERS
SEARCH TIME: 00.00.01

L13           0 SEA SSS FUL L4

=> s full l5
FULL SEARCH INITIATED 17:20:58 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -    81845 TO ITERATE

100.0% PROCESSED    81845 ITERATIONS                          0 ANSWERS
SEARCH TIME: 00.00.01

L14           0 SEA SSS FUL L5

=> s full l6
FULL SEARCH INITIATED 17:21:02 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -    28788 TO ITERATE

100.0% PROCESSED    28788 ITERATIONS                          0 ANSWERS
SEARCH TIME: 00.00.01

L15           0 SEA SSS FUL L6

=> s full l7
FULL SEARCH INITIATED 17:21:08 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -    83586 TO ITERATE

100.0% PROCESSED    83586 ITERATIONS                          4 ANSWERS
SEARCH TIME: 00.00.01
```

```
L16             4 SEA SSS FUL L7

=> s full l8
FULL SEARCH INITIATED 17:21:14 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -   115678 TO ITERATE

100.0% PROCESSED   115678 ITERATIONS                                5 ANSWERS
SEARCH TIME: 00.00.03

L17             5 SEA SSS FUL L8

=> s full l9
FULL SEARCH INITIATED 17:21:21 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -     9438 TO ITERATE

100.0% PROCESSED     9438 ITERATIONS                                0 ANSWERS
SEARCH TIME: 00.00.01

L18             0 SEA SSS FUL L9

=> file caplus
COST IN U.S. DOLLARS                          SINCE FILE      TOTAL
                                                   ENTRY    SESSION
FULL ESTIMATED COST                             1500.70    1500.91

FILE 'CAPLUS' ENTERED AT 17:21:43 ON 27 MAR 2006
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FILE COVERS 1907 - 27 Mar 2006  VOL 144 ISS 14
FILE LAST UPDATED: 26 Mar 2006  (20060326/ED)

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They are available for your review at:

http://www.cas.org/infopolicy.html

=> s (l16 or l17)
             3 L16
             3 L17
L19          3 (L16 OR L17)

=> d l19 abs ibib hitstr 1

L19  ANSWER 1 OF 3  CAPLUS  COPYRIGHT 2006 ACS on STN
AB   Esters, amides, and imidazolidines containing chloro, phosphate,
     dithiophosphate, thio, epithio, mercapto, and sulfuryl groups, alone or in
     combination, were evaluated as high-pressure lubricants and lubricant
     additives for paraffin and diester lubricants.  The epithio group was the
     most effective in enhancing the antiwear and extreme-pressure preformances
     of the compds. as additives; sulfurized and chloro sulfone derivs. were
     somewhat less effective.  The phosphate and dithiophosphate derivs. were
     good antiwear additives, but only the latter appeared potentially useful
```
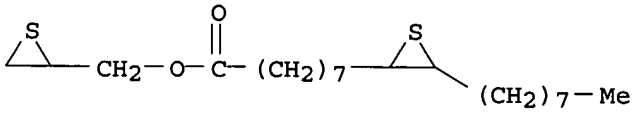

for improving extreme-pressure lubrication. Structure-performance correlations favored use of the esters over the amides.

ACCESSION NUMBER: 1976:76603 CAPLUS
DOCUMENT NUMBER: 84:76603
TITLE: Lubricants and lubricant additives. II. Performance characteristics of some substituted fatty acid esters
AUTHOR(S): Magne, F. C.; Mod, R. R.; Sumrell, G.; Koos, R. E.; Parker, W. E.
CORPORATE SOURCE: South. Reg. Res. Cent., ARS, New Orleans, LA, USA
SOURCE: Journal of the American Oil Chemists' Society (1975), 52(12), 494-7
CODEN: JAOCA7; ISSN: 0003-021X
DOCUMENT TYPE: Journal
LANGUAGE: English

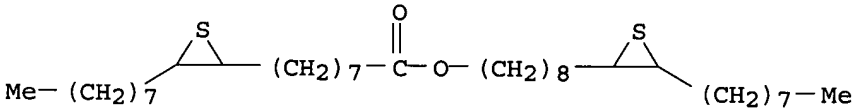
IT **58401-49-3**
RL: USES (Uses)
(lubricant additives)

RN 58401-49-3 CAPLUS
CN Thiiraneoctanoic acid, 3-octyl-, thiiranylmethyl ester (9CI) (CA INDEX NAME)

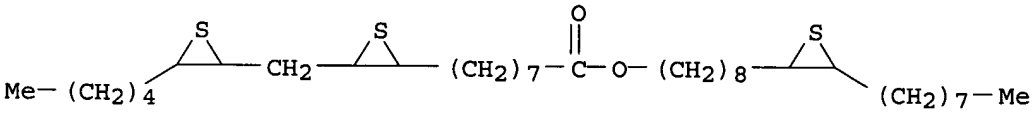


IT **54479-69-5 58401-55-1 58401-73-3**
RL: USES (Uses)
(lubricants and lubricant additives)

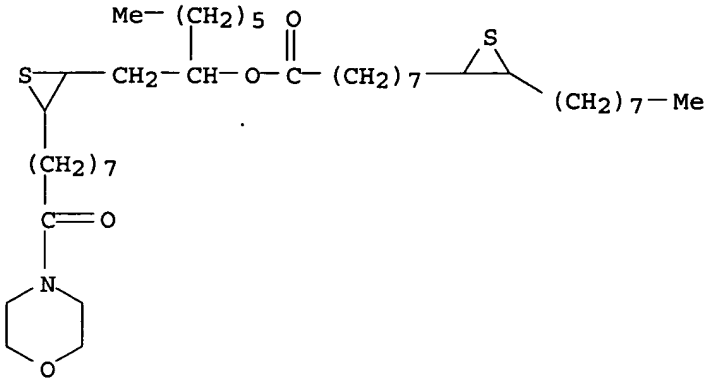
RN 54479-69-5 CAPLUS
CN Thiiraneoctanoic acid, 3-octyl-, 8-(3-octylthiiranyl)octyl ester (9CI) (CA INDEX NAME)



RN 58401-55-1 CAPLUS
CN Thiiraneoctanoic acid, 3-[(3-pentylthiiranyl)methyl]-, 8-(3-octylthiiranyl)octyl ester (9CI) (CA INDEX NAME)



RN 58401-73-3 CAPLUS
CN Thiiraneoctanoic acid, 3-octyl-, 1-[[3-[8-(4-morpholinyl)-8-oxooctyl]thiiranyl]methyl]heptyl ester (9CI) (CA INDEX NAME)



=> d l19 abs ibib hitstr 2

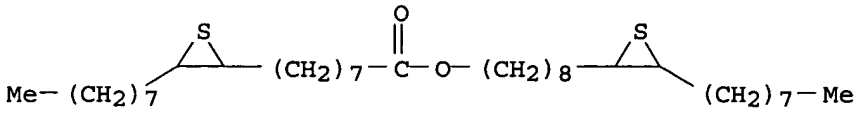
L19 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2006 ACS on STN

AB N-alkyl and N,N-dialkyl or N-alkyl-N-alkoxyalkyl amides of C16-C22 alkenoic or alkanoic fatty acids are good base lubricants. The introduction of divalent S, particularly the epithio group, into the fatty acid moiety imparts extreme pressure (EP) lubricity. Introduction of hydroxy and alkyl phosphate groups α to each other also imparts EP lubricity. Examples of compds. useful as base lubricants are N-methyl-N-butyloleamide [13827-53-7] (I) and N-ethoxyethoxy propyloleamide [49542-57-6] (II). Examples of EP lubricants are N,N-dibutyl-9,10-epithiostearamide [49542-62-3] (III), 9,10-epithiostearoyl morpholine [49542-63-4], and N-[9(or 10)-hydroxy-10(or 9)-dibutylphosphoryl)]stearamide (IV). IV and its mercapto analog also show antiwear activity. Examples of the preparation of the above compds. and many others are given. The lubricity of these compds. in the Shell Four-Ball wear test using 600 rpm, 120° and 5 kg load for 1 hr are as follows I 0.607, II 0.526,III 0.842, IV 0.498, 100 sec paraffin oil (V) 0.803, Aeroshell (Mil. 7803) bis(2-ethylhexyl) sebacate and additive (VI) 0.587, and Gulf Pride Single G MS multiviscosity oil (VII) 0.447 mm scar D. V is an oil without additives while com. VI and VII are com. lubricants which contain additives to improve performance. Examples of tests of these compds. as EP and low wear additives are given.

ACCESSION NUMBER: 1975:88387 CAPLUS
DOCUMENT NUMBER: 82:88387
TITLE: N-Substituted fatty acid amide lubricants
INVENTOR(S): Magne, Frank C.; Mod, Robert R.; Sumrell, Gene; Parker, Winfred E.
SOURCE: U. S. Pat. Appl., 42 pp.
CODEN: XAXXAV
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 334318		19730221	US 1973-334318	19730221
US 3873457		19750325	US 1973-334318	19730221

IT **54479-69-5P**
RL: PREP (Preparation)
(preparation of and lubricating oil additives from)
RN 54479-69-5 CAPLUS
CN Thiiraneoctanoic acid, 3-octyl-, 8-(3-octylthiiranyl)octyl ester (9CI) (CA INDEX NAME)



=> d l19 abs ibib hitstr 3

L19 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2006 ACS on STN

AB The low-temperature vulcanization of natural or synthetic diene-type rubbers with polythiirane compds. in the presence of a catalyst is disclosed. The polythiirane compds. specified in the examples are: 4,5-epithiopentyl 4,5-epithiopentanoate; bis(2,3-epithiopropyl) ether of bis(4-hydroxyphenyl)dimethylmethane (I); bis(2,3-epithiobutyl) ether and bis(2,3-epithiopropyl ether) of ethylene glycol. The catalysts used include diethylaminopropylamine (II), and a BF3Et2O complex. The materials can be mixed on a conventional rubber mill or in solution in a mixed aromatic hydrocarbon-ketone solvent from which the vulcanizate ppts. The products are particularly suitable for metal adhesives. Thus, Hycar 1432 rubber 4, I 2.5, and II 0.75 g. were mixed in 20 g. iso-BuCOMe and 4.5 g. C6H6. The resulting cement was spread on 2 pieces of Cu foil and air-dried for 15 min. The pieces were then clamped together for 24 hrs. after which the Mean Peel Load test (ASTM-816) showed a value of 7.6 lb./in. A similar cement was applied to the surfaces of Al foil. After aging for 11 days, the bond was subjected to the Breaking Load test (ASTM-D-1002) and a value of 75 lb. was found.

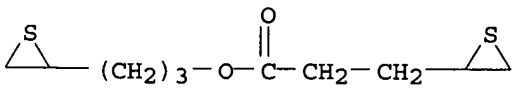
ACCESSION NUMBER: 1961:30611 CAPLUS
DOCUMENT NUMBER: 55:30611
ORIGINAL REFERENCE NO.: 55:6009d-g
TITLE: Polythiirane-rubber compositions
INVENTOR(S): Mackinney, Herbert W.
PATENT ASSIGNEE(S): Union Carbide Corp.
DOCUMENT TYPE: Patent
LANGUAGE: Unavailable
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2962457		19601129	US 1958-728514	19580415

IT **102540-61-4**, 1-Pentanol, 4,5-epithio-, 4,5-epithiovalerate (in rubber vulcanization)

RN 102540-61-4 CAPLUS

CN Valeric acid, 4,5-epithio-, 4,5-epithiopentyl ester (6CI) (CA INDEX NAME)



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---Logging off of STN---

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Executing the logoff script...

=> LOG Y

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	17.63	1518.54

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-2.25	-2.25

STN INTERNATIONAL LOGOFF AT 17:24:35 ON 27 MAR 2006